

Work Order ID 60349

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Page 1

Item ID: D350-561-141

Accept

Revision ID:

Item Name: Single Cargo Mirror Assembly

Start Date: 7/06/10 Start Qty: 1.00

Required Date: 7/09/10 Req'd Qty: 1.00

Reference:

Approvals: Process Plan: *W*

QC:

Date: 10/7/10

Date:

Tooling:

SPC (Y/N):

Date:

Date:

Run

Start

Stop

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

Draw Nbr

Revision Nbr

N/A

Rev N/A

100



DOCUMENT CONTROL

0.00

DC

Memo

0.00

Document Control

Photocopy bluefile and create labels per PPP D350-561-141 CHG003



PLA WIP 60380

8/10/10/10

105



Pick Kit

0.00

Packaging

Memo

0.00

Packaging

10-7-7-8

110



QC4- 100% Inspect kits for completeness

0.00

QC

Memo

0.00

Quality Control

8-10-7-10-7



Work Order ID 60349

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Item ID: D350-561-141

Accept



Setup

Start



Revision ID:

Item Name: Single Cargo Mirror Assembly

Stop



Start Date: 7/06/10 Start Qty: 1.00



Cust Item ID:

Required Date: 7/09/10 Req'd Qty: 1.00



Customer:

Reference:

Approvals: Process Plan:

Date:

Tooling:

Date:

Run

Start



QC:

Date:

SPC (Y/N):

Date:

Stop



Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

120



Packaging

Packaging

0.00

Memo

0.00

Identify and pack for shipping as per PPP D350-561-141

Rec C
PPP 60320

10-7-7 SP

130



QC

Quality Control

QC21- Final Inspection - Work Order Release

0.00

Memo

0.00

2100707

MF
10-7-7

Picklist Print

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Work Order ID: 60349

Parent Item: D350-561-141

Parent Item Name: Single Cargo Mirror Assembly

Start Date: 7/06/10

Required Date: 7/09/10

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP A 07.07.26 new issue (DSI9379) EC verified by:JLM IPP rev
B 10.02.16 per ecn 10-523 EC verified by: DD IPP Rev:C add pick kit
DD 10.03.15 verified by:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D2011-101 6" Mirror		Manufactured	No			105	Each	28.0000	1	1			
<div> <div>Location</div> <div>ST231</div> <div>58398</div> </div> <div> <div>Loc Qty</div> <div>28</div> <div>28</div> </div> <div> <div>Loc Code</div> <div></div> <div></div> </div>													
D2012-105 Arm		Manufactured	No			105	Each	6.0000	1	1			
<div> <div>Location</div> <div>ST229</div> <div>57544</div> </div> <div> <div>Loc Qty</div> <div>6</div> <div>6</div> </div> <div> <div>Loc Code</div> <div></div> <div></div> </div>													
D2012-107 Clevis		Manufactured	No			105	Each	29.0000	1	1			
<div> <div>Location</div> <div>ST004</div> <div>40274</div> <div>46634</div> </div> <div> <div>Loc Qty</div> <div>29</div> <div>11</div> <div>18</div> </div> <div> <div>Loc Code</div> <div></div> <div></div> <div></div> </div>													
D2012-111 Bracket		Manufactured	No			105	Each	16.0000	1	1			
<div> <div>Location</div> <div>ST004</div> <div>40148</div> </div> <div> <div>Loc Qty</div> <div>16</div> <div>16</div> </div> <div> <div>Loc Code</div> <div></div> <div></div> </div>													

10-7-78

10-7-78

10-7-78

10-7-78

Picklist Print

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Work Order ID: 60349

Parent Item: D350-561-141

Parent Item Name: Single Cargo Mirror Assembly

Start Date: 7/06/10

Required Date: 7/09/10

Start Qty: 1.00

Required Qty: 1.00

D2012-115

Manufactured No

105 Each

57.0000

1

1



Bracket, Clevis

Location

Loc Qty

Loc Code

ST004

57

25581

57

D2022-101

Manufactured No

105 Each

155.0000

2

2



Spacer

Location

Loc Qty

Loc Code

ST504

155

50746

55

52325

100

D3629-1

Manufactured No

105 Each

11.0000

1

1



Bracket

Location

Loc Qty

Loc Code

ST244A

11

48560

11

D3635-1

Manufactured No

105 Each

3.0000

1

1



Gasket

Location

Loc Qty

Loc Code

ST076

3

52914

3

D3635-3

Manufactured No

105 Each

44.0000

2

2



Gasket

Location

Loc Qty

Loc Code

ST076

44

56399

44

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Shop Packet Print

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Work Order ID: 60349

Parent Item: D350-561-141

Parent Item Name: Single Cargo Mirror Assembly

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15

D3646-1
Arm

Manufactured No

105 Each

12.0000

Start Date: 7/06/10

Start Qty: 1.00

Required Date: 7/09/10

Required Qty: 1.00

Location

Loc Qty

Loc Code

ST229

12

57546

2

58836

10

Manufactured No

105 Each

10.0000

Location

Loc Qty

Loc Code

ST229

10

52668

5

58837

5

Manufactured No

105 Each

73.0000

Location

Loc Qty

Loc Code

ST460

73

56381

73

Purchased No

105 Each

1,342.000

Location

Loc Qty

Loc Code

ST350

1342

104214

213

104291

300

104322

200

104374

200

104625

300

104817

129

D4070-041
Clamp

AN3-4A
Bolt

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Shop Packet Print

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Picklist Print

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Work Order ID: 60349

Parent Item: D350-561-141

Parent Item Name: Single Cargo Mirror Assembly

Start Date: 7/06/10

Required Date: 7/09/10

Start Qty: 1.00

Required Qty: 1.00

AN3-6A
Bolt

Purchased No

105 Each

319.0000



1

1

10-7-75

Location

Loc Qty

Loc Code

ST351

319

113359

119

114941

200

AN4-5A
Bolt

Purchased No

105 Each

313.0000



3

3

10-7-75

Location

Loc Qty

Loc Code

ST351

4

100089

4

ST356

309

114108

13

114330

196

115016

100

AN4-10A
Bolt

Purchased No

105 Each

126.0000



1

1

10-7-75

Location

Loc Qty

Loc Code

ST356

126

113422

26

114523

100

AN960JD10
Washer

NAS1149D0363J

Purchased No

105 Each

0.0000



8

8

1114884 10-7-75

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Picklist Print

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Work Order ID: 60349

Parent Item: D350-561-141

Parent Item Name: Single Cargo Mirror Assembly

Start Date: 7/06/10

Required Date: 7/09/10

Start Qty: 1.00

Required Qty: 1.00

AN960JD416

NAS1149D0463J

Purchased

No

105

Each

20.0000

8

8



Washer

Location

Loc Qty

Loc Code

ST351

20

108827

20

MS21042L3

Purchased

No

105

Each

2,871.000

4

4



Nut

Location

Loc Qty

Loc Code

ST300

2871

114523

389

114718

482

114784

2000

MS21042L4

Purchased

No

105

Each

4,422.000

4

4



Nut

Location

Loc Qty

Loc Code

ST300

4410

113422

68

114523

28

114718

314

114784

2000

115108

2000

ST356

12

108145

12

M115000 10.7.7 SP

10.7.7 SP

10.7.7 SP

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DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS D350-561-REV. C

REF. CANADIAN STC: SH91-20 ISSUE 2

REF. FAA STC: SH856NE

To reduce vibration, Dart has developed the D350-561-141/-143 Mirror Installations to replace the D350-561-041/-043 Mirror Installations. For customers with D350-561-041/-043 Mirror Installations at CHG 005 or earlier who would like to upgrade their installation, the DSI 9379-011 Upgrade Kit can be obtained from Dart. The components for DSI 9379-011 Kit are as defined in Section 1.0 below.

Customers upgrading their installation from D350-561-041/-043 to D350-561-141/-143 should follow instructions given in Figures 1 through 5 of DSI 9379 and refer to Installation Instructions D350-561 Rev. C as applicable.

Customers who are installing a D350-561-141/-143, should refer to Figures 2 through 5 of DSI 9379 and refer to Installation Instructions D350-561 Rev. C as applicable.

This service instruction details the D350-561-141/-143 kits at CHANGE 003 or later, which use D4070-041 Clamps (replaces MS21919WDG7 clamps). For -141/-143 kits at earlier change numbers, the DSI-9379-013 Upgrade kit is available to replace the mil-spec clamps with more robust D4070-041 Clamps.

1.0 PARTS LIST

Qty -141	Qty -143	Qty -045	Qty -011	Qty -013	Part Number	Description
X	1				D350-561-141	SINGLE MIRROR INSTALLATION (REPLACES -041)
	X				D350-561-143	DUAL MIRROR INSTALLATION (REPLACES -043)
	1	X			D350-561-045	MIRROR KIT
			X		DSI-9379-011	UPGRADE KIT
				X	DSI-9379-013	UPGRADE KIT
1		1			D2011-101	MIRROR
1					D2012-105	ARM
1					D2012-107	CLEVIS
1					D2012-111	BRACKET
		2			D2012-113	CLAMP
1					D2012-115	BRACKET
2					D2022-101	SPACER
1*		1*			D3014-1	LOCKNUT
1			1		D3629-1	BRACKET
1			1		D3635-1	GASKET
2			2		D3635-3	GASKET
1			1		D3646-1	ARM
1			1		D3646-3	ARM
2			2	2	D4070-041	CLAMP
3			3		AN3-4A	BOLT
1					AN3-6A	BOLT
3			2	2	AN4-5A	BOLT
1					AN4-10A	BOLT
8			6		AN960JD10	WASHER
8			4	4	AN960JD416	WASHER
1*		1*			AN960JD416L	WASHER
4			3		MS21042L3	NUT (OR MS21042-3)
4			2	2	MS21042L4	NUT (OR MS21042-4)

*INCLUDED AS PART OF D2011-101 MIRROR

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: *D. Shepherd*
D. SHEPHERD (DE # 02)

DATE: 10.02.12
CERT. NO.: SH91-20
ISSUE NO.: 2

C	D4070-041 WAS MS21919WDG7	CP	10.02.12
B	MS21919WDG7 WAS MS21929WDG7	DC	07.11.26
A	NEW ISSUE	MB	07.07.10
REV.	DESCRIPTION	BY	DATE

DESIGN		DART AEROSPACE LTD
DRAWN		HAWKESBURY, ONTARIO, CANADA
CHECKED		DRAWING NO. REV. C
MFG. APPR.	N/A	DSI 9379 SHEET 1 OF 5
APPROVED		TITLE SCALE
DE APPR.		CARGO MIRROR UPDRAGE KIT NTS
DATE	10.02.12	COPYRIGHT © 2007 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.

W/O:			WORK ORDER CHANGES					
DATE	STEP		PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:			WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP		Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
				Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries